Contents of Ecological Modelling, Vol. 53

A demographic model of assimilation and allocation of carbon and nitrogen in grapevines	
B. Wermelinger, J. Baumgärtner (Zürich, Switzerland) and A.P. Gutierrez (Berkeley,	1
CA, U.S.A.) EM-algorithm as a tool for structure analysis of stands of the common reed (<i>Phragmites australis</i>)	,
W. Ostendorp and J. Möller (Konstanz, Germany)	27
Damages to seabirds from oil spills: comparing simulation results and vulnerability indexes	
K.L. Seip, E. Sandersen, F. Mehlum and J. Ryssdal (Oslo, Norway)	39
The concept of sustainable yield in multi-species fisheries	
W.J. Ströbele and H. Wacker (Oldenburg, Germany)	61
Model of a shrimp population (Philocheras trispinosus) I. Simulation of the size structure	
JPh. Labat (Banyuls-sur-Mer, France)	75
Model of a shrimp population (Philocheras trispinosus) II. Simulation of the energy	
fluxes JPh, Labat (Banyuls-sur-Mer, France)	95
Effects of seasonally varying diet quality on collared peccary population dynamics — a simulation study	93
J.P. Wilber, P.G. Hannon and W.E. Grant (College Station, TX, U.S.A.)	109
Sensitivity analysis of ecosystems: an analytical treatment	
C. Giersch (Düsseldorf, Germany)	131
Permanence and oscillatory co-existence of a detritus-based prey-predator model	140
A.K. Sarkar, D. Mitra, S. Ray and A.B. Roy (Calcutta, India)	147
Book reviews	157
Classification and ordination of limnological data: a comparison of analytical tools	
R.A. Matthews, G.B. Matthews (Bellingham, WA, USA) and W.J. Ehinger (Chapel	
Hill, NC, USA)	167
Simulation of shoot vegetative development and growth of unstressed winter wheat	
G.S. McMaster (Fort Collins, CO, USA), B. Klepper, R.W. Rickman (Pendleton,	
OR, USA), W.W. Wilhelm (Lincoln, NE, USA) and W.O. Willis	189
Simulation model for the effects of climate change on temperate grassland ecosystems	
H.W. Hunt, M.J. Trlica, E.F. Redente, J.C. Moore, J.K. Detling, T.G.F. Kittel (Fort	
Collins, CO, USA), D.E. Walter (Orlando, FL, USA) M.C. Fowler, D.A. Klein and	20.5
E.T. Elliott (Fort Collins, CO, USA)	205
Sensitivity analysis of a forest succession model R. Leemans (Uppsala, Sweden)	247
Exploitation competition and coexistence of two plant populations on a number of	447
growth-limiting resources	
D. Zhang (Lanzhou P.R. China)	263

A mechanistic model explaining the effect of two-dimensional diffusion of a herd on biomass of natural grasses	
D.S. Liu, W.Q. Cai and Y.W. Zhu (Nanjing, P.R. China)	281
MiteSim – a simulation model of the Banks grass mite (Acari: Tetranychidae) and the predatory mite, <i>Ncosciulus fallacis</i> (Acari: Phytosciidae) on maize: model development and validation,	
J.S. Berry, T.O. Holtzer and J.M. Norman (Lincoln, NE, USA)	291
Author Index	319
Contents, Vol. 53	321

